

<u>BRUHAT BANGALORE MAHANAGARA PALIKE</u>		
PROJECT DIVISION YELAHANKA ZONE		
DETAILED COST ESTIMATE		
Package-02		
Name of Work :		
1. Construction of Govt. School Rooms, Palanahalli and Kattigehalli Village in Ward No.05 (Palanahalli)		
2. Improvement to Roads and Drains in Agrahara, Agrahara Layout and Surrounding area in Ward No.05		
3. Improvement to Roads and Drains in Kogilu Layout and Surrounding area in Ward No.05		
4. Improvement to Roads and Drains at Tirumenahalli and Surrounding area in Ward No.05		
SL NO	DESCRIPTION	AMOUNT IN LAKHS
1	Construction of Govt. School Rooms, Palanahalli and Kattigehalli Village in Ward No.05 (Palanahalli)	8000000
2	Improvement to Roads and Drains in Agrahara, Agrahara Layout and Surrounding area in Ward No.05	5000000
3	Improvement to Roads and Drains in Kogilu Layout and Surrounding area in Ward No.05	5000000
4	Improvement to Roads and Drains at Tirumenahalli and Surrounding area in Ward No.05	4000000
	TOTAL AMOUNT	220000000

Certificate.

- 1 The rates adopted based on the PWD SR, Bangalore circle for year 2016-17.
- 2 The provisions made in the estimate are necessary and essential.
- 3 The workspot was inspected and work is found to be necessary.
- 4 The area comes within the Bruhat Bangalore Mahanagara Palike limits.

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Project Yelahanka Division
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Byatarayanapura

Bruhat Bangalore Mahanagara Palike

Name of Work :

A	Construction of Govt. School Rooms, Palanahalli and Kattigehalli Village in Ward No.05 (Palanahalli)
B	Improvement to Roads and Drains in Agrahara, Agrahara Layout and Surrounding area in Ward No.05
C	Improvement to Roads and Drains in Kogilu Layout and Surrounding area in Ward No.05
D	Improvement to Roads and Drains at Tirumenahalli and Surrounding area in Ward No.05

Abstract of Estimate

Item No	Description of work	Unit	A	B	C	D	Total Quantity	Rate in Rs.	Amount in Rs.
1	Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specification. As per the direction of Engineer incharge	Cum	0.00	539.49	428.00	302.56	1270.05	219.15	278336.03
2	Removing and refixing stone slabs of drains and pointing in CM (1:3) As per the direction of Engineer incharge	Sqm	0.00	1189.44	316.80	424.80	1931.04	87.00	168009.75
3	Providing granite Slabs of Selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., Complete. 7.5cms thick As per the direction of Engineer incharge	Sqm	0.00	0.00	0.00	0.00	0.00	718.93	0.00
4	Excavation for roadwork in soil with hydraulic excavator of 0.90 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to embankment location and complete as per specifications. As per the direction of Engineer incharge	Cum	0.00	1466.88	977.13	650.40	3094.41	177.94	550620.90
5	Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage ' of mixed Material by tipper to site, laying in uniform layers with paver in sub- base/ base course on well prepared surface and compacting with vibratory roller to achieve the desired density.complete as per specifications. As per the direction of Engineer incharge	Cum	0.00	1466.88	758.15	542.00	2767.03	1909.53	5283707.29
6	Providing and applying primer coat with SS bitumen emulsion on prepared surface of granular Base such as WBM WMM including clearing of road surface and spraying primer at the rate of 0.60 kglsqm using mechanical means complete as per specifications. As per As per the direction of Engineer incharge	Sqm	0.00	5867.50	3032.60	2168.00	11068.10	29.76	329439.78
7	Providing and applying tack coat using 80/100 grade bitumen (VG10) on prepared black topped surfaces at 2.5 Kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. As per the direction of Engineer incharge	Sqm	0.00	5867.50	5870.60	3686.00	15424.10	13.74	211890.12
8	Providing and laying bituminous concrete 30-40 mm compacted thickness with VG30 Bitumen grade using 40-60 HMP using crushed aggregates of grading II, premixed with bituminous binder at 5.4% of mix and filler, transporting the hot mix to work site, laying with a mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRT&H specification clause No. 500.9 complete in all respects as per specifications. As per the direction of Engineer incharge	Cum	0.00	209.18	121.30	86.72	417.20	8770.02	3658888.76
9	Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. As per the direction of Engineer incharge	Sqm	0.00	244.00	1200.00	61.25	1505.25	586.14	882283.62
10	Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.892 cum and fine aggregates @ 0.465 cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications.	Cum	0.00	0.00	17.18	0.00	17.18	5776.66	99214.15

11	Cement concrete pavement. Construction of un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 design mix M20/M30, with 25mm and down size graded granite metal coarse aggregates and fine aggregates, with superplasticiser @ 3lts confirming to IS9103-1999 Reaffirmed-2008, mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rakers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane, sealant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specifications. - M30 (at 360Kg per cum coarse aggregate @ 0.69cum and fine aggregate @ 0.46cum)	Cum	0.00	0.00	39.18	0.00	39.18	6715.40	263075.67
12	Vacuum de-watering with vacuum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator, HOM of machinery, Screed Vibratory, Power Floater, blade and disc etc., with all lead and lift.	Sqm	0.00	0.00	114.50	0.00	114.50	103.03	11797.16
13	Earthwork in surface excavation in Ordinary soil for levelling and lowering the ground manually (other than foundation of buildings, culverts, road drains and trenches of pipe lines and cables) and removing the excavated stuff to a distance not exceeding 50m and lift upto 1.5m, excavated surface levelled and neatly dressed, disposed earth to be levelled after breaking of clods and neatly dressed as per specifications. specification. No. KBS 2.1(a) / 2.3.1 Note : Adopt item 2.24 for excavation in all types of soils for lowering & levelling the ground for building works by mechanical means	Cum	4519.50	0.00	0.00	0.00	4519.50	183.12	827632.53
14	Earthwork excavation by manual means for foundation of buildings, culverts, water supply and sanitary lines and electrical conduits etc, either in pits or in trenches 1.5m and above in width, in Ordinary soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. including breaking of clods complete as per specifications.	Cum	302.51	0.00	0.00	0.00	302.51	220.45	66687.27
15	Providing and injecting chemical emulsion for Pre-constructional Anti-Termite Treatment, creating continuous chemical barrier under and around the column pits, walls, trenches, basement excavation, top surface of the plinth filling, junction of wall and floor, along the external perimeter of building, expansion joints, over the top surface of consolidated earth on which apron is to be laid, surrounding of pipes and conduits, with chloropyriphos emulsifiable concentrates of 20% concentration, including cost of chemical, diluting in water to one percent concentration, labour, HOM of equipments, complete as per specifications. (Plinth area of the building at ground floor only shall be measured)	Sqm	229.33	0.00	0.00	0.00	229.33	120.14	27551.52
16	Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.85Cum. and fine aggregates @ 0.57Cum. machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM of machinery, curing complete as per specifications.	Cum	61.80	0.00	0.00	0.00	61.80	5676.87	350823.40
17	Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.53cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications. Ground Floor	Cum	17.17	0.00	0.00	0.00	17.17	6346.38	108992.20
18	Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.53cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications. Terrace	Cum	1.19	0.00	0.00	0.00	1.19	6463.02	7658.68

19	Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.53cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Window Cills	Cum	0.00	0.00	0.00	0.00	0.00	6404.70	0.00
20	Earthwork excavation in all soil deposits and filling sides of foundation upto plinth in layers not exceeding 20cms. in depth, compacting each deposited layer by ramming after watering with all lead and lift including cost of all labour complete as per specifications.	cum	433.80	0.00	0.00	0.00	433.80	296.27	128520.02
21	Providing and laying cinder concrete in cement 1:15 (1 cement : 15 cinder of 12.5mm nominal gauge) on terraced roof or sunken slabs, laid to slope compacting, including cost of materials, labour, curing complete as per specifications.	Cum	0.00	0.00	0.00	0.00	0.00	2218.49	0.00
22	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specifications.	Sqm	97.28	0.00	0.00	0.00	97.28	269.44	26210.97
23	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth cills and string courses cost of all materials, labour complete as per specifications.	Sqm	199.32	0.00	0.00	0.00	199.32	341.76	68117.89
24	Providing and removing centering, shuttering, strutting, propping etc., for columns, pillars, post and struts, square / rectangular/ polygon in plan including cost of all materials, labour complete as per specifications. Below Ground Floor	Sqm	85.49	0.00	0.00	0.00	85.49	426.90	36497.85
25	Providing and removing centering, shuttering, strutting, propping etc., for columns, pillars, post and struts, square / rectangular/ polygon in plan including cost of all materials, labour complete as per specifications. Ground Floor	Sqm	57.38	0.00	0.00	0.00	57.38	426.90	24495.83
26	Providing and removing centering, shuttering, strutting, propping etc., for columns, pillars, post and struts, square / rectangular/ polygon in plan including cost of all materials, labour complete as per specifications. First Floor	Sqm	0.00	0.00	0.00	0.00	0.00	432.73	0.00
27	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for sides and soffits of beams, beam haunchings, cantilever girders, bressumers and lintels not exceeding 1m in depth including cost of all materials, labour complete as per specifications. Lintel	Sqm	104.95	0.00	0.00	0.00	104.95	298.60	31339.10
28	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for sides and soffits of beams, beam haunchings, cantilever girders, bressumers and lintels not exceeding 1m in depth including cost of all materials, labour complete as per specifications. First Floor	Sqm	12.40	0.00	0.00	0.00	12.40	304.43	3774.94
29	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for sides and soffits of beams, beam haunchings, cantilever girders, bressumers and lintels not exceeding 1m in depth including cost of all materials, labour complete as per specifications. Roof Beam	Sqm	154.00	0.00	0.00	0.00	154.00	298.60	45983.50
30	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for sides and soffits of beams, beam haunchings, cantilever girders, bressumers and lintels not exceeding 1m in depth including cost of all materials, labour complete as per specifications. First Floor	Sqm	34.10	0.00	0.00	0.00	34.10	304.43	10381.08
31	Providing and removing centering, shuttering, strutting, propping etc., for chajias, corbels etc., including edges including cost of all materials, labour complete as per specifications. Ground Floor	Sqm	9.00	0.00	0.00	0.00	9.00	314.93	2834.35
32	Providing and removing centering, shuttering, strutting, propping etc., for chajias, corbels etc., including edges including cost of all materials, labour complete as per specifications. First Floor	Sqm	3.60	0.00	0.00	0.00	3.60	320.76	1154.74
33	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for Stairs (excluding landing) except spiral staircase including cost of all materials, labour complete as per specifications. Ground Floor	Sqm	27.64	0.00	0.00	0.00	27.64	554.04	15315.33
34	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for flat surface such as roofs, landings, balconies and likes, thickness upto 200 mm including cost of all materials, labour complete as per specifications. up to 3.50m from Ground level. Ground Floor	Sqm	247.95	0.00	0.00	0.00	247.95	365.08	90522.38
35	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for flat surface such as roofs, landings, balconies and likes, thickness upto 200 mm including cost of all materials, labour complete as per specifications. up to 3.50m from Ground level. First Floor	Sqm	73.70	0.00	0.00	0.00	73.70	371.92	27410.15

36	KSRB 4.2.1 : Providing and laying in position reinforced cement concrete of Design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70 Cum. and fine aggregates @ 0.47Cum., with super plasticisers @ 3 liters conforming to IS 9103-1999 reaffirmed-2008 at machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedestals, retaining walls, return walls, walls (any thickness) including attached pilasters, columns pillars, posts, struts, buttresses, bed blocks, anchor blocks & plinths etc., including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications. Specification No. KBS 4.1, 4.6	Cum	60.67	0.00	0.00	0.00	60.67	7256.17	440198.14
37	Providing and laying in position reinforced cement concrete of design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70cum and fine aggregates @ 0.47cum, with superplastisier @3lts conforming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in ground floor level for roof slabs, staircase, lintels and beams retaining walls, return walls, walls (any thickness) including attached pilasters, columns, lintels, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications. Ground Floor	Cum	69.90	0.00	0.00	0.00	69.90	7426.47	519110.17
38	Providing and laying in position reinforced cement concrete of design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70cum and fine aggregates @ 0.47cum, with superplastisier @3lts conforming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in ground floor level for roof slabs, staircase, lintels and beams retaining walls, return walls, walls (any thickness) including attached pilasters, columns, lintels, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications. First Floor	Cum	15.00	0.00	0.00	0.00	15.00	7484.79	112271.83
39	Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 24kgs, with 12mm and down size graded granite metal coarse aggregates @0.05175Cum. and fine aggregates @ 0.0345Cum., with superplastisier @0.225lts, machine mixed, well compacted for plain chajja of 7.5 cms. average thickness, upto ground floor level, including cost of all materials, labour, HOM of machinery, finishing, curing, complete but excluding cost of reinforcement as per specifications. Ground Floor	Sqm	4.10	0.00	0.00	0.00	4.10	531.88	2180.70
40	Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 24kgs, with 12mm and down size graded granite metal coarse aggregates @0.05175Cum. and fine aggregates @ 0.0345Cum., with superplastisier @0.225lts, machine mixed, well compacted for plain chajja of 7.5 cms. average thickness, upto ground floor level, including cost of all materials, labour, HOM of machinery, finishing, curing, complete but excluding cost of reinforcement as per specifications. First Floor	Sqm	3.60	0.00	0.00	0.00	3.60	537.71	1935.76
41	Extra for providing throating or drip moulding to R.C.C. chajja with plastering (labour charges only) as per specifications. Ground Floor	m	9.00	0.00	0.00	0.00	9.00	23.33	209.95
42	Extra for providing throating or drip moulding to R.C.C. chajja with plastering (labour charges only) as per specifications. First Floor	m	0.00	0.00	0.00	0.00	0.00	23.33	0.00
43	Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Below Ground Level	MT	14.50	0.00	0.00	0.00	14.50	70692.00	1025034.07
44	Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. First Floor	MT	1.80	0.00	0.00	0.00	1.80	71242.55	128236.58

45	KSRB 5.3-3 : Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13	Cum	41.63	0.00	0.00	0.00	41.63	5837.83	243038.17
46	KSRB 5.4-3 : Providing and constructing granite / trap / basalt size stone masonry in superstructure with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, scaffolding, curing complete as per specifications. KBS 5.1.13	Cum	16.47	0.00	0.00	0.00	16.47	6122.43	100826.20
47	KSRB 15.1.1 Providing flush pointing to square rubble, course or uncoursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications.	Sqm	34.24	0.00	0.00	0.00	34.24	113.14	3873.90
48	Providing and constructing load bearing wall with solid concrete blocks having block density not less than 1800kg/m3 having a minimum average compressive strength of 4.00 N/mm2 conforming to IS 2185 (Part 1):2005 and constructed with CM 1:4, as per IS 2572:2005 including cost of all materials labour charges, scaffolding, curing, hire charges of machineries etc., complete as per specifications. Ground Floor	Sqm	277.90	0.00	0.00	0.00	277.90	1092.92	303721.58
49	Providing and constructing load bearing wall with solid concrete blocks having block density not less than 1800kg/m3 having a minimum average compressive strength of 4.00 N/mm2 conforming to IS 2185 (Part 1):2005 and constructed with CM 1:4, as per IS 2572:2005 including cost of all materials labour charges, scaffolding, curing, hire charges of machineries etc., complete as per specifications. First Floor	Sqm	58.70	0.00	0.00	0.00	58.70	1098.75	64496.55
50	Providing and constructing load bearing wall with solid concrete blocks having block density not less than 1800kg/m3 having a minimum average compressive strength of 4.00 N/mm2 conforming to IS 2185 (Part 1):2005 and constructed with CM 1:4, as per IS 2572:2005 including cost of all materials labour charges, scaffolding, curing, hire charges of machineries etc., complete as per specifications. Terrace	Sqm	22.80	0.00	0.00	0.00	22.80	1104.58	25184.44
51	Providing and constructing non load bearing wall with solid concrete blocks of size 400x100x200mm having a block density not less than 1800kg/m3 having a minimum average compressive strength of 4.00 N/mm2 conforming to IS 2185 (Part 1):2005 and constructed with CM 1:4, as per IS 2572:2005 including cost of all materials, labour charges, scaffolding, curing, hire charges of machineries etc., complete as per specifications. Ground Floor	Sqm	11.40	0.00	0.00	0.00	11.40	835.14	9520.62
52	Providing and constructing non load bearing wall with solid concrete blocks of size 400x100x200mm having a block density not less than 1800kg/m3 having a minimum average compressive strength of 4.00 N/mm2 conforming to IS 2185 (Part 1):2005 and constructed with CM 1:4, as per IS 2572:2005 including cost of all materials, labour charges, scaffolding, curing, hire charges of machineries etc., complete as per specifications. First Floor	Sqm	14.30	0.00	0.00	0.00	14.30	840.97	12025.33
53	Providing and constructing non load bearing wall with solid concrete blocks of size 400x100x200mm having a block density not less than 1800kg/m3 having a minimum average compressive strength of 4.00 N/mm2 conforming to IS 2185 (Part 1):2005 and constructed with CM 1:4, as per IS 2572:2005 including cost of all materials, labour charges, scaffolding, curing, hire charges of machineries etc., complete as per specifications. Terrace	Sqm	125.31	0.00	0.00	0.00	125.31	846.81	106111.62
54	Providing 18mm thick cement plaster in single coat with cement mortar 1:6, to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. Ground Floor	Sqm	444.00	0.00	0.00	0.00	444.00	230.95	102540.56
55	Providing 18mm thick cement plaster in single coat with cement mortar 1:6, to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. First Floor	Sqm	103.00	0.00	0.00	0.00	103.00	242.61	24988.95
56	Providing 18mm thick cement plaster in single coat with cement mortar 1:6, to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. Terrace	Sqm	254.60	0.00	0.00	0.00	254.60	254.28	64738.47
57	Extra for providing and mixing waterproofing compound in cement plaster work at one kg per bag or in the proportion recommended by the manufacturers, for cement mortar 1:4, 18mm thick cost of materials complete as per specifications. Ground Floor	Sqm	444.00	0.00	0.00	0.00	444.00	9.33	4143.05

58	Extra for providing and mixing waterproofing compound in cement plaster work at one kg per bag or in the proportion recommended by the manufacturers, for cement mortar 1:4, 18mm thick cost of materials complete as per specifications. First Floor	Sqm	103.00	0.00	0.00	0.00	103.00	9.33	961.11
59	Extra for providing and mixing waterproofing compound in cement plaster work at one kg per bag or in the proportion recommended by the manufacturers, for cement mortar 1:4, 18mm thick cost of materials complete as per specifications. Terrace	Sqm	254.60	0.00	0.00	0.00	254.60	9.33	2375.72
60	Providing and fixing plaster mesh 150mm wide manufactured out of hot dipped galvanised iron of nominal thickness 0.35mm with a zinc coating of 120gms per sqm width, along route of walls chipped for services, junction between RCC and brick walls including cost of materials, labour for fixing complete as per specifications. (length of mesh only be measured for payment) Ground Floor	m	244.00	0.00	0.00	0.00	244.00	38.88	9486.72
61	Providing and fixing plaster mesh 150mm wide manufactured out of hot dipped galvanised iron of nominal thickness 0.35mm with a zinc coating of 120gms per sqm width, along route of walls chipped for services, junction between RCC and brick walls including cost of materials, labour for fixing complete as per specifications. (length of mesh only be measured for payment) First Floor	m	117.00	0.00	0.00	0.00	117.00	38.88	4548.96
62	Providing 15mm thick cement plaster in single coat with cement mortar 1:6, to brick masonry including rounding off corners wherever required smooth rendering. : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. (Internal Plastering) Ground Floor	sqm	454.00	0.00	0.00	0.00	454.00	194.79	88434.12
63	Providing 15mm thick cement plaster in single coat with cement mortar 1:6, to brick masonry including rounding off corners wherever required smooth rendering. : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. (Internal Plastering) First Floor	sqm	64.00	0.00	0.00	0.00	64.00	200.62	12839.73
64	Providing 12mm thick cement plaster in single coat with cement mortar 1:3, to ceiling including rounding off corners wherever required smooth rendering. : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. Ground Floor	sqm	236.00	0.00	0.00	0.00	236.00	225.12	53127.19
65	Providing 12mm thick cement plaster in single coat with cement mortar 1:3, to ceiling including rounding off corners wherever required smooth rendering. : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. First Floor	sqm	42.00	0.00	0.00	0.00	42.00	230.95	9699.78
66	Flooring with 20 mm thick polished shahabad slabs using cement mortar 1:6, 25mm thick over existing cement concrete bed or top of roof laid to line and level and jointed with cement slurry mixed with pigment to match the shade of the slab, including cost of materials, labour, curing, polishing complete as per specifications. Ground Floor	sqm	227.00	0.00	0.00	0.00	227.00	1398.51	317462.59
67	Flooring with 20 mm thick polished shahabad slabs using cement mortar 1:6, 25mm thick over existing cement concrete bed or top of roof laid to line and level and jointed with cement slurry mixed with pigment to match the shade of the slab, including cost of materials, labour, curing, polishing complete as per specifications. First Floor	sqm	58.00	0.00	0.00	0.00	58.00	1400.26	81215.27
68	Providing half nosing for 20mm thick granite / shahbad slab using required machinery including cost and conveyance of all materials, labour for all items of work, HOM of equipment etc., complete as per specification Ground Floor	Rmt	37.00	0.00	0.00	0.00	37.00	184.29	6818.77
69	Providing half nosing for 20mm thick granite / shahbad slab using required machinery including cost and conveyance of all materials, labour for all items of work, HOM of equipment etc., complete as per specification First Floor	Rmt	18.00	0.00	0.00	0.00	18.00	184.29	3317.24
70	Providing and finishing external walls in two coats over one coat of primer with antifungal paint of approved brand and shade to give an even shade after thoroughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications. Ground Floor	Sqm	444.00	0.00	0.00	0.00	444.00	176.13	78200.12
71	Providing and finishing external walls in two coats over one coat of primer with antifungal paint of approved brand and shade to give an even shade after thoroughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications. First Floor	Sqm	103.00	0.00	0.00	0.00	103.00	184.12	18964.85
72	Providing and finishing external walls in two coats over one coat of primer with antifungal paint of approved brand and shade to give an even shade after thoroughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications. Terrace	Sqm	254.60	0.00	0.00	0.00	254.60	190.12	48405.37

73	Providing applying two coats of wall putty to inside plastered walls and ceiling using white cement putty. Scrapping and levelling the surface using steel blade and preparing the surface even and smooth by using different grade sand papers, including cost of all materials, cost of labour and scaffolding etc., complete as per the specification. (Internal Walls) Ground Floor	Sqm	690.00	0.00	0.00	0.00	690.00	65.32	45069.70
74	Providing applying two coats of wall putty to inside plastered walls and ceiling using white cement putty. Scrapping and levelling the surface using steel blade and preparing the surface even and smooth by using different grade sand papers, including cost of all materials, cost of labour and scaffolding etc., complete as per the specification. (Internal Walls) First Floor	Sqm	106.00	0.00	0.00	0.00	106.00	65.32	6923.75
75	Providing and applying painting in two coats with plastic emulsion paint of approved brand to give an even approved shade after thoroughly brushing the surface, free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications. - with primer Ground Floor	Sqm	454.00	0.00	0.00	0.00	454.00	104.98	47659.10
76	Providing and applying painting in two coats with plastic emulsion paint of approved brand to give an even approved shade after thoroughly brushing the surface, free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications. - with primer First Floor	Sqm	64.00	0.00	0.00	0.00	64.00	104.98	6718.46
77	Providing and applying painting in two coats with plastic emulsion paint of approved brand to give an even approved shade after thoroughly brushing the surface, free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications. - with primer KSRB 15-15.2 : Extra over Item 15-15.1 for painting two coats with plastic emulsion paint of approved brand and shade on ceiling and / or sloping roof as per specifications. Ground Floor	Sqm	236.00	0.00	0.00	0.00	236.00	109.64	25875.42
78	Providing and applying painting in two coats with plastic emulsion paint of approved brand to give an even approved shade after thoroughly brushing the surface, free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications. - with primer KSRB 15-15.2 : Extra over Item 15-15.1 for painting two coats with plastic emulsion paint of approved brand and shade on ceiling and / or sloping roof as per specifications. First Floor	Sqm	42.00	0.00	0.00	0.00	42.00	109.64	4604.95
79	Applying red lead ready mix priming coat over new steel or other metal surface including preparing the surface after thoroughly cleaning oil, grease, dirt and other foreign matter, and scoured with wire brushes, fine steel wool, sand papers including cost of materials, labour, complete as per specifications. Ground Floor	Sqm	6.00	0.00	0.00	0.00	6.00	33.83	202.95
80	Applying red lead ready mix priming coat over new steel or other metal surface including preparing the surface after thoroughly cleaning oil, grease, dirt and other foreign matter, and scoured with wire brushes, fine steel wool, sand papers including cost of materials, labour, complete as per specifications. First Floor	Sqm	11.00	0.00	0.00	0.00	11.00	33.83	372.08
81	Providing and applying enamel metal paint two coats (excluding priming coat) over new steel or other metal surface brushing to give an even shade after cleaning oil, grease, dirt and other foreign matter, including cost of materials, labour, complete as per specifications. Ground Floor	Sqm	6.00	0.00	0.00	0.00	6.00	95.64	573.87
82	Providing and applying enamel metal paint two coats (excluding priming coat) over new steel or other metal surface brushing to give an even shade after cleaning oil, grease, dirt and other foreign matter, including cost of materials, labour, complete as per specifications. First Floor	Sqm	11.00	0.00	0.00	0.00	11.00	95.64	1052.09

83	Door Frame - Entrance : Providing & fixing factory made Galvanized plain steel door frame of profile size 125 x 60 mm single rebate manufactured from galvanized plain steel sheet 1.25 mm thick, conforming to IS:277. The door frame consists of hinge jamb, lock jamb, head & bottom tie bars, supply in knockdown condition & to be assembled at site by mechanical means with special mitre joint. The bottom tie bar made out of galvanized plain steel sheet 1.60 mm thick pressed angle 20 x 20 mm screwed to the door frame. The stiffeners of 3 mm thick pre- punched & pre-trapped are to be welded inside the pre-punched slots of the door frames & 4 nos. of S.S. butt hinges 100 x 59 x 2.5 mm to be screwed to the door frame. The necessary stiffeners & mortar guards to be provided for fixing hardware fixtures. The door frame to be powder coated after pre- treatment of the surface. The door frame shall be filled with 1:3:6 cement concrete & to be fixed with adjustable lugs/ hold fasts. Alternatively, dry fixing shall be permitted by using metallic expansion bolt. The rate is including transportation, loading, unloading, HOM etc. but excluding the hardware fixtures. size 1000 x 2130 mm Ground Floor	Rmt	0.00	0.00	0.00	0.00	0.00	711.50	0.00
84	Door Frame - Entrance : Providing & fixing factory made Galvanized plain steel door frame of profile size 125 x 60 mm single rebate manufactured from galvanized plain steel sheet 1.25 mm thick, conforming to IS:277. The door frame consists of hinge jamb, lock jamb, head & bottom tie bars, supply in knockdown condition & to be assembled at site by mechanical means with special mitre joint. The bottom tie bar made out of galvanized plain steel sheet 1.60 mm thick pressed angle 20 x 20 mm screwed to the door frame. The stiffeners of 3 mm thick pre- punched & pre-trapped are to be welded inside the pre-punched slots of the door frames & 4 nos. of S.S. butt hinges 100 x 59 x 2.5 mm to be screwed to the door frame. The necessary stiffeners & mortar guards to be provided for fixing hardware fixtures. The door frame to be powder coated after pre- treatment of the surface. The door frame shall be filled with 1:3:6 cement concrete & to be fixed with adjustable lugs/ hold fasts. Alternatively, dry fixing shall be permitted by using metallic expansion bolt. The rate is including transportation, loading, unloading, HOM etc. but excluding the hardware fixtures. size 1000 x 2130 mm First Floor	Rmt	10.20	0.00	0.00	0.00	10.20	711.50	7257.34
85	Door Shutters Entrance : Providing & fixing factory made Galvanized steel door Shutters 32 mm thick manufactured from pre- painted Galvanized plain steel sheet 0.60 mm thick conforming to the IS: 14246. The door shutters consist of two outer skins if steel sheets, lock seam jointed at vertical stile edges, horizontal top & bottom sides to form a double skin fully flush shell. Rigid polyurethane Foam (PUF) of density 40 Kg/M3 shall be filled in the hollow portion of door shutters for structure rigidly & sound insulation. The necessary stiffeners of the Galvanized plain steel sheet of minimum thickness 1.60 mm to be provided for fixing all hardware fixtures. The rate is including MS Doorlock, MS Aldrop, 2nos of oxidised MS Handles, 2nos. of 300mm longTower Bolt, transportation, loading, unloading, HOM etc. Ground Floor	Sqm	0.00	0.00	0.00	0.00	0.00	4117.39	0.00
86	Door Shutters Entrance : Providing & fixing factory made Galvanized steel door Shutters 32 mm thick manufactured from pre- painted Galvanized plain steel sheet 0.60 mm thick conforming to the IS: 14246. The door shutters consist of two outer skins if steel sheets, lock seam jointed at vertical stile edges, horizontal top & bottom sides to form a double skin fully flush shell. Rigid polyurethane Foam (PUF) of density 40 Kg/M3 shall be filled in the hollow portion of door shutters for structure rigidly & sound insulation. The necessary stiffeners of the Galvanized plain steel sheet of minimum thickness 1.60 mm to be provided for fixing all hardware fixtures. The rate is including MS Doorlock, MS Aldrop, 2nos of oxidised MS Handles, 2nos. of 300mm longTower Bolt, transportation, loading, unloading, HOM etc. First Floor	Sqm	4.40	0.00	0.00	0.00	4.40	4117.39	18116.52

87	Providing and fixing in position in cement concrete 1:3:6 steel glazed or Unglazed windows fully openable as per approved drawings using Z angles of 25x33x3mm, weighing 1.419 Kg/m both for outer and inner frames and central mullion section of size 25x46x3mm, weighing 2.28Kg/m duly providing T section 19x19x3mm weighing 0.839 kg/m for glazing of windows not more than 34 cms. c to c including providing and fixing 4mm thick reeded glass with teakwood beading of required size or 1mm thick MS Sheet and 11 nos of 10mm square MS horizontal gaurd bars, all steel sections should confirm to I.S 7452:1990, 4nos. of holdfasts of approved size, section should be cut to length welded and electrically grinded subdividing frames of unit shall be tenonned and revetted into the frames electrically. All the steel surface shall be thoroughly cleaned free of rust and painted with one coat of anti-corosive paint and finishing with two coats of ready mix paint of approved colour and make including cost of materials, fixtures, labour and HOM of machinery complete as per specifications. Ground Floor	Sqm	0.00	0.00	0.00	0.00	0.00	4619.33	0.00
88	Providing and fixing in position in cement concrete 1:3:6 steel glazed or Unglazed windows fully openable as per approved drawings using Z angles of 25x33x3mm, weighing 1.419 Kg/m both for outer and inner frames and central mullion section of size 25x46x3mm, weighing 2.28Kg/m duly providing T section 19x19x3mm weighing 0.839 kg/m for glazing of windows not more than 34 cms. c to c including providing and fixing 4mm thick reeded glass with teakwood beading of required size or 1mm thick MS Sheet and 11 nos of 10mm square MS horizontal gaurd bars, all steel sections should confirm to I.S 7452:1990, 4nos. of holdfasts of approved size, section should be cut to length welded and electrically grinded subdividing frames of unit shall be tenonned and revetted into the frames electrically. All the steel surface shall be thoroughly cleaned free of rust and painted with one coat of anti-corosive paint and finishing with two coats of ready mix paint of approved colour and make including cost of materials, fixtures, labour and HOM of machinery complete as per specifications. First Floor	Sqm	0.00	0.00	0.00	0.00	0.00	4625.16	0.00
89	Providing and laying integral cement based waterproofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc., consisting of following application. (a) Applying and grouting a slurry coat of neat cement using 2.75 kg/ sqm of cement admixed with proprietary water proofing compound conforming to IS:2645 over the RCC slab after cleaning the surface before treatment. (b) Laying cement concrete using broken brick bats 25mm to 100mm size with 50% of cement mortar 1:5 admixed with proprietary water proofing compound conforming IS:2645 over 20mm thick layer of cement mortar 1:5 admixed with proprietary water proofing compound to required slope and treating similarly the adjoining walls upto 300mm height including rounding off junctions of walls and slabs. (c) After two days of proper curing, applying a second coat of cement lurry admixed with proprietary water proofing compound (d) Finishing the surface with 20mm thick joint less cement mortar of mix 1:4 admixed with proprietary water proofing compound and finally finishing the surface with trowel and neat cement slurry and making of 300x300mm square. (e) The whole terrace so finished shall be flooded with water for a minimum period of two weeks for curing and for final test including cost of materials, labour complete as per specifications.	Sqm	258.00	0.00	0.00	0.00	258.00	1054.43	272041.80
90	Providing and fixing M.S. Hand railing for Balcony / Staircase etc., with 50mm dia. M.S. hollow pipe of 14 gauge, welded to 20mmx20mm M.S. square rod placed vertically, spaced at 100mm at regular intervals of 600mm. These vertical rods laterally tied to 3 horizontal rods spaced at equal interval. These assembly is fixed to concrete by using expansion bolts and welding the same to reinforcement bars and making good the surface. All the joints and sections should be cut to length, welded and grinded wherever necessary etc., complete . The work includes cost of all materials, labour charges for all items of work, hire charges for welding, cutting and grinding equipment, and electricity charges, etc., complete as per specification and drawing.	Sqm	81.90	0.00	0.00	0.00	81.90	3086.29	252767.51
91	Providing and fixing on wall surface 2.5kg/sq.cm P.V.C rain down water pipes (Spouts) 110mm outer dia approved make and brand with necessary specials like shoes, bends and offsets fixed with iron clamps, wall plugs, screws, including cost of materials, labour, curing complete as per specifications.	Rmt	18.00	0.00	0.00	0.00	18.00	548.21	9867.74
92	Providing wall black boards in CM 1:3 with two coats of black paint including finishing etc., complete. (2.4mx1.5m) Ground Floor	Each	4.00	0.00	0.00	0.00	4.00	1071.92	4287.69

93	Providing wall black boards in CM 1:3 with two coats of black paint including finishing etc., complete. (2.4mx1.5m) First Floor	Each	1.00	0.00	0.00	0.00	1.00	1071.92	1071.92
94	Supplying heavy gauge PVC Conduit Pipe dia mm thick with suitable size bends, metal junction boxes adhesive paste etc., by Groove cutting in the wall and fixing by bracing U or J hooks and cement plastering up to the wall surface and run with 18 SWG GI fish wire run throughout the conduit wherever necessary. 25mm dia 2mm thick	Mtr	385.00	0.00	0.00	0.00	385.00	61.56	23700.60
95	Supplying and flush mounting teak wooden box without front plank, made of not less than 12mm thick wood, after due groove cutting, Finishing with necessary cement plastering complete. 10"x7"x3" (254x178x76mm)	Each	9.00	0.00	0.00	0.00	9.00	93.96	845.64
96	Supplying and flush mounting teak wooden box without front plank, made of not less than 12mm thick wood, after due groove cutting, Finishing with necessary cement plastering complete. 8"x6"x3" (203x152x76mm)	Each	5.00	0.00	0.00	0.00	5.00	73.44	367.20
97	Point wiring using Copper wire with switch. Supplying and wiring adopting loop system in existing PVC Conduit / casing capping using 1100V grade, COPPER conductor flexible multistrand FRLS PVC insulated, 2 X1.5Sq.mm Cable conforming to the GTP, with a 6Amps flush type SP control switch shall be fixed on the existing plastic sheet / gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. complete for each outlet. GROUP A	Each	14.00	0.00	0.00	0.00	14.00	188.92	2644.88
98	Supplying 6A flush type socket and 6 amps flush type SP switch either surface/flush mounting in existing gang box or in 4mm thick plastic sheet and fixing over a flush mounted wooden box and wiring using necessary capacity wires as required	Each	16.00	0.00	0.00	0.00	16.00	162.00	2592.00
99	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand Copper with low conductor resistance single core wire in open or concealed system of wiring with specified IS-694:1990 & confirming to GTP of GROUP -A. 1.5 sq. mm.	Mtr	485.00	0.00	0.00	0.00	485.00	20.09	9742.68
100	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand Copper with low conductor resistance single core wire in open or concealed system of wiring with specified IS-694:1990 & confirming to GTP of GROUP -A. 2.5 sq. mm.	Mtr	970.00	0.00	0.00	0.00	970.00	31.54	30589.92
101	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand Copper with low conductor resistance single core wire in open or concealed system of wiring with specified IS-694:1990 & confirming to GTP of GROUP -A. 6 sq. mm.	Mtr	60.00	0.00	0.00	0.00	60.00	92.23	5533.92
102	Supplying 4mm thick plastic sheet with necessary niches for fixing switches, regulators etc., and fixing on existing wooden or metal box using N.F. screws.	Sqcm	5490.00	0.00	0.00	0.00	5490.00	0.27	1482.30
103	Supply and fixing of Metal fan hook box	Each	13.00	0.00	0.00	0.00	13.00	99.36	1291.68
104	Supplying and fixing of modular switch/Socket/Stepped Electronic fan regulator/Dimmer/telephone socket etc on existing modular switch plate as per IS 3854 & IS 1293 GROUP A	Each	4.00	0.00	0.00	0.00	4.00	72.36	289.44
105	Supplying box type suitable for 28W T5 single / twin Lamp & suspension mounted luminaire & optical reflector. Prewired with HF electronic Ballast, push fit type lamp holders & main connectors. Channel cover shall be made of CRCA MS Sheet and finishing is done with stove enameled white with end caps made of engineering plastic.	Each	8.00	0.00	0.00	0.00	8.00	1069.20	8553.60
106	Supplying heavy gauge PVC Conduit Pipe dia mm thick with suitable size bends, metal junction boxes adhesive paste etc., by groove cutting in the wall and fixing by bracing U or J hooks and cement plastering up to the wall surface and run with 18 SWG GI fish wire run throughout the conduit wherever necessary.	Mtr	65.00	0.00	0.00	0.00	65.00	62.64	4071.60
107	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand Copper with low conductor resistance single core wire in open or concealed system of wiring with specified IS-694:1990 & confirming to GTP of GROUP -A.	Mtr	50.00	0.00	0.00	0.00	50.00	45.47	2273.40
108	Supplying and fixing regular MCB distribution boards on wall / wood board / flush mounting using required clamps, bolts, nuts etc., with provision for fixing suitable type capacity MCB's single phase / 3 phase / single door with powder coated painting etc., 6Way TP&N DB's DD)	Each	2.00	0.00	0.00	0.00	2.00	3096.36	6192.72
109	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898.	Each	7.00	0.00	0.00	0.00	7.00	452.44	3167.08
110	Supplying, fixing and wiring Earth Leakage Miniature Circuit Breaker [ELMCB] 240/450V up to 300mA sensitivity on existing wood/panel board. (63 Amps 4 pole ELMCB)	Each	1.00	0.00	0.00	0.00	1.00	3618.00	3618.00

111	Supplying, fixing, wiring, earth electrode for grounding conduits, L.C. cutouts and other equipment's on the meter board using 40mm dia 2.90mm thick GI pipe 2.5 mtr long buried in a pit ... The pit should be filled with equal proportion of salt and charcoal 150mm all-round the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size as per ISI specification 7.3.3. of IS 732 using 12mm dia bolts, nuts, washers and check nuts etc., the pipe shall have 16 through holes of 122 mm dia	Each	2.00	0.00	0.00	0.00	2.00	2945.16	5890.32
112	Supplying and running GI/Copper conductor for grounding and (along with other wires in conduit system of wiring) using necessary suitable size clamps, nails, guttas/spacers etc. GI Wire	Mtr	60.00	0.00	0.00	0.00	60.00	21.06	1263.60
113	Point wiring using Copper wire with switch. Supplying and wiring adopting loop system in existing PVC Conduit / casing capping using 1100V grade, COPPER conductor flexible multistrand FRLS PVC insulated, 2 X1.5Sq.mm Cable confirming to the GTP, with a 6Amps flush type SP control switch shall be fixed on the existing plastic sheet / gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. complete for each outlet. GROUP A-Short point upto 3Mtr	Point	10.00	0.00	0.00	0.00	10.00	187.92	1879.20
114	Point wiring using Copper wire with switch. Supplying and wiring adopting loop system in existing PVC Conduit / casing capping using 1100V grade, COPPER conductor flexible multistrand FRLS PVC insulated, 2 X1.5Sq.mm Cable confirming to the GTP, with a 6Amps flush type SP control switch shall be fixed on the existing plastic sheet / gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. complete for each outlet. GROUP A -Medium point upto 3Mtr	Point	10.00	0.00	0.00	0.00	10.00	264.60	2646.00
115	Point wiring using Copper wire with switch. Supplying and wiring adopting loop system in existing PVC Conduit / casing capping using 1100V grade, COPPER conductor flexible multistrand FRLS PVC insulated, 2 X1.5Sq.mm Cable confirming to the GTP, with a 6Amps flush type SP control switch shall be fixed on the existing plastic sheet / gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. complete for each outlet. GROUP A-Long point upto 3Mtr	Point	10.00	0.00	0.00	0.00	10.00	392.04	3920.40
116	Concealed Conduit System Supplying heavy gauge PVC conduit pipe mm dia mm thick confirming to IS 2509 with suitable size bends, metal/PVC junction boxes, adhesive paste etc., and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be covered using PVC end enclosures, run with 18SWG GI fish wire wherever necessary - 25mm dia 2mm thick	Mtr	315.00	0.00	0.00	0.00	315.00	61.56	19391.40
117	Supplying and fixing of Stepped electronic regulator Scket type.(11/29) a) Group A	Each	9.00	0.00	0.00	0.00	9.00	72.36	651.24
118	Supplying and fixing PBBC bakelite straight or slant batten holder and wiring, within 60w/230 Volts lamps a) Group 'A'	Each	38.00	0.00	0.00	0.00	38.00	95.04	3611.52
119	Supplying of slim box type fluorescent fitting, made out of PVC Body with 28W Energy Saving Device, less than 10% T.H.D, pf > 0.90, auto cut off facility locking type holder 1 No of 4'-28W fluorescent tube and completely wired for use on 90V to 350V grade 50 cycle AC supply.	Each	16.00	0.00	0.00	0.00	16.00	723.60	11577.60
120	Supplying capacitor type ceiling fan complete with down rod blades, shackle, canopies etc., for operation on 230 volts, 50 cycles. Single phase AC supply conforming to ISS-374-1979 and with double ball bearing system. 48" Sweep (1200mm)	Each	13.00	0.00	0.00	0.00	13.00	2566.08	33359.04
121	Fixing all types and all capacities of fluorescent / false ceiling / spot light / CFL / LED fittings indoor on the wall / ceiling / rafters / girders using 23/0.0076" twin twisted PVC insulated wires, required Nos of round blocks and clamps.	Each	24.00	0.00	0.00	0.00	24.00	105.84	2540.16
122	Fixing a ceiling/Wall mounting fan of all capacities and all types to the existing S hook with fan regulator to the existing board together with supplying and fixing a 5 ampers ceiling rose, necessary length of 23 / 0.0076 inch PVC insulated twin twisted copper wire and wiring completely.	Each	13.00	0.00	0.00	0.00	13.00	150.12	1951.56
123	Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc., complete	Mtr	0.00	0.00	0.00	0.00	0.00	114.48	0.00
124	Supplying of 1.1 KV LT UG cable having aluminum conductor PVC insulated, extruded inner sheathed, galvanized, steel strip (except 2CX10Sq.mm wire armoured) confirming to IS-3975:1990 (No. of Strip indicated in GTP) & extruded PVC outer sheathed armoured cable with specified IS-1554 Part-1:1988 & confirming to GTP of GROUP-A.	Mtr	50.00	0.00	0.00	0.00	50.00	286.20	14310.00
125	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required.In existing trench/duct.	Mtr	0.00	0.00	0.00	0.00	0.00	17.50	0.00

125	Geophysical investigation of site for sinking Borewell for supplying drinking water to the habitation either through the Hand pump, MWS of P.W.S.S by vertical electrical sounding by adopting Verner or Schlumberger's method, including reconnaissance survey of geological formation, Gerophysical investigation of existing Ground Water in the vicinity, its quality 1.0 meter in consolidated formation for proper seating of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation of instrument and accessories to work site., engaging technical personal and labour required etc., as per Specification and direction	No	2.00	0.00	0.00	0.00	2.00	2093.54	4187.07
127	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, threading and welding including transportation of rig and supporting vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars, cap etc..) 0 to 50 m	Mtr	100.00	0.00	0.00	0.00	100.00	340.39	34039.44
128	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, threading and welding including transportation of rig and supporting vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars, cap etc..) 50 to 100 m	Mtr	100.00	0.00	0.00	0.00	100.00	444.96	44496.00
129	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, threading and welding including transportation of rig and supporting vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars, cap etc..) 100 to 150 m	Mtr	100.00	0.00	0.00	0.00	100.00	496.02	49601.80
130	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, threading and welding including transportation of rig and supporting vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars, cap etc..) 150 to 200 m	Mtr	100.00	0.00	0.00	0.00	100.00	522.83	52282.80
131	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, threading and welding including transportation of rig and supporting vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars, cap etc..) 200 to 250 m	Mtr	100.00	0.00	0.00	0.00	100.00	605.15	60514.56
132	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, threading and welding including transportation of rig and supporting vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars, cap etc..) 251 to 300 m	Mtr	100.00	0.00	0.00	0.00	100.00	648.53	64852.92
133	Supply of ISI mark 175 mm nominal bore medium black ERW casing pipe of 5 mm thick black electric resistance continuous welded mild steel tube material conforming to IS 1387 / 1993 & manufactured from hot rolled steel skelp / stripes in random length of 4 to 7 mts both ends threaded conforming to IS 554 / 1985, one end fixed with a socket and the other and with a plastic protection end (including of all taxes)	Mtr	90.00	0.00	0.00	0.00	90.00	1431.00	128790.00
134	Providing 250mm dia PVC Pipe	Rmtr	30.00	0.00	0.00	0.00	30.00	1235.52	37065.60
135	Providing 175mm dia ms casing cap	no	2.00	0.00	0.00	0.00	2.00	108.00	216.00
136	Providing MS Casing pipe collars	no	20.00	0.00	0.00	0.00	20.00	162.00	3240.00

	Supply and delivery at site brand New texmo/ innoval/ Lubi/ Sabar / Atalanta/ Calamal/ make suitable for vertical installation in 150mm dia bore well comprising of single stage or multistage CF pump close coupled by means of stainless steel coupling to suitable HP suitable speed totally enclosed and filled with pure drinking water (Vet type) squirrel cage submersible induction motor suitable for operation of 3PH., 50 Hz, 380/440 volts AC supply fitted with required accessories such as suction, casing suction strainers sand guard Non return valve etc. complete . The pump and motor shall form an integral unit with all the required fittings .	no	2.00	0.00	0.00	0.00	2.00	80247.00	160494.00
138	Providing and fixing to wall ceiling and floor galvanised/ mild steel tubes (medium grade 1.27 kg /mt) B class 50 mm dia nominal bore with all fittings (earth work in trenches to be measured and paid for separately) including cost of all materials, labour charges, HOM of equipments and testing complete as per specifications.	Mtr	420.00	0.00	0.00	0.00	420.00	569.32	239116.08
139	Supplying and drawing 3 core flat PVC sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper conductor conforming to table 3 class 5 of IS:8130-1984 and virgin grade PVC insulation and Powder coated extruded PVC sheathed suitable for working voltage upto 1100 Volts as per IS - 694 ; 1990 AND CONFORMING TO gtp OFGROUP A	Mtr	600.00	0.00	0.00	0.00	600.00	203.80	122277.60
140	Labour charges for erection of new/ repaired submersible pumpset along with gi pipes including transportation each length	NO	100.00	0.00	0.00	0.00	100.00	95.04	9504.00
141	Supplying and flush polished wood board with out front front plank made of not less than 15mm thick plank after due groove cutting Finishing with necessary on fixing the same to the wall using tapered inverted wooden plugs screws etc.,	Each	2.00	0.00	0.00	0.00	2.00	326.16	652.32
142	Supplying of 1.1 KV LT UG cable having aluminium conductor PVC insulated sheathed, EXTREDED INNER SHEATHRD galvanised steel, stirp confirming IS 3975;1990 AND extruded PVC outer sheathing armoured cable IS 1554 part 1;1998 and confirming to GTP of group.	Mtr	60.00	0.00	0.00	0.00	60.00	152.63	9157.92
143	Labour charges for laying of 1.1 K.V class UG cable, P No. 61 / I No. 7.8.1 In existing trench/duct 6Sqmm to 16 Sqmm)	Mtr	60.00	0.00	0.00	0.00	60.00	11.66	699.84
144	Digging or trenching of 0.6m deep x 0.5 mtr wide refilling the trench to the required ground level and consolidating etc., complete For Cutting Road Surface asphalt	Mtr	60.00	0.00	0.00	0.00	60.00	126.36	7581.60
145	Supplying and fixing of Class A (medium duty) GI pipe of wall thickness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV class 40mm dia GI pipe	Mtr	6.00	0.00	0.00	0.00	6.00	372.60	2235.60
146	Supplying and fixing L.T. cast Iron pot head suitable for 1.1 KV class UG cable filled with necessary bitumen/insulating compound complete with terminals, clamps, bolts, nuts and washers etc., 16Sqmm	NO	2.00	0.00	0.00	0.00	2.00	302.40	604.80
147	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C cutouts and other equipments on the meter board using 40 mm dia 2.90 mm thick GI pipe 2.5 m long buried in a pit. The pit should be filled with equal proportion of soft and charcoal 150 mm around the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size, as per ISI specification 7.3.3 IS 732 using 12 mm dia bolts, nuts, washers and check nuts, etc., the pipe shall have 16 through holes of 122 mm dia,	NO	2.00	0.00	0.00	0.00	2.00	2945.16	5890.32
148	Supplying and fixing of Porcelain fuse channel with cut out on existing wooden / panel using necessary nuts, bolts and washer etc., complete 100 Amps	Each	6.00	0.00	0.00	0.00	6.00	389.80	2338.80
149	Supplying and fixing of heavy duty glands for ug cable 1.1 kv etc., complete 25mm dia	No.	24.00	0.00	0.00	0.00	24.00	92.88	2229.12
150	Supplying and fixing miniature circuit breakers/solaters on existing MCB distribution boards using necessary fixing materials wiring complete as required 5 to 32 amps triple pole with all lead and lift, loading, unloading and labour charges etc complete as per specifications	Each	2.00	0.00	0.00	0.00	2.00	1670.76	3341.52
151	Fabrication supplying and mounting MS box of 16 SWG suitable for floor /wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished 2 coats of red oxide primer paint and finally finished with approved colour enamelled metal paint etc., complete box of 21600 sqcm @ Rs.0.33 16SWG	Sq.Cm	58500.00	0.00	0.00	0.00	58500.00	0.35	20475.00
152	KSRB 13-7.1-4: Providing and fixing in position 50mm nominal bore gun metal non-return valve horizontal type of approved make including cost of all materials, labour and HOM of equipments with all leads complete as per specifications	NOS	2.00	0.00	0.00	0.00	2.00	1664.15	3328.30

	Providing NP/CP waste unions conforming to ISI specifications and fixing them in position as per directions including cost of materials, fixtures and conveyance to work spot etc., complete. 50mm dia	NOS	6.00	0.00	0.00	0.00	6.00	239.17	1435.00
154	Gale valve 50 mm nominal bore gun metal 50mm dia	NOS	6.00	0.00	0.00	0.00	6.00	1782.00	10692.00
155	NIPPLE 50 mm nominal bore gun metal 50mm dia	NOS	2.00	0.00	0.00	0.00	2.00	112.64	225.29
156	S BEND 50 mm nominal bore gun metal 50mm dia	NOS	6.00	0.00	0.00	0.00	6.00	236.52	1419.12
157	TEE 50 mm nominal bore gun metal 50mm dia	NOS	2.00	0.00	0.00	0.00	2.00	182.52	365.04
158	Supplying and delivery at site brand new star / Essen/ Lotus/Sun-shines/Adarsh/ GK Controls best indigenous make combined energy meter - cum- control panel board unit of size 600x450 x200 mm minimum mechanically strong vermin and water proof. The unit shall have two detachable doors suitable for operation on 3 ph, 50Hz, 380/440 volts, A.C supply with spring loaded latch, locking device with a key ribs should be provided inside the door, canopy apron and louvers ventilators shall be provided. the combined energy meter cum- control panel board unit suitable for operation. The panel board shall be fabricated on single unit in the above components for suitable pumpset.	NO	2.00	0.00	0.00	0.00	2.00	10800.00	21600.00
159	Earth work excavation for foundation of buildings, culverts, water supply, sanitary lines and electrical conduits either in pits or in trenches, 1.5m and above in width, in ordinary soil, exceeding 1.5m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with all lead upto 50m after breaking of clods complete as per specifications	cmtr	45.00	0.00	0.00	0.00	45.00	175.65	7904.11
160	Providing and installing at site of work pvc pipes including cost of pipes and special and labour including lowering into trenches laying true to line level and prefect linking at joints, leak proof including jointing of approved type with all labour and lift charges handling charges including encasing the pipes all round to a depth not less than 15 cms with gravel or selected earth available from the excavation etc. complete PVC pipe of 6kg/cm2 75 mm (0.662)	Rmtr	100.00	0.00	0.00	0.00	100.00	142.49	14249.00
161	Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20 cms in depth, compacting each deposited layer by ramming after watering with a lead upto 50m and lift upto 1.5m including cost of all labour complete as per specifications	cmtr	45.00	0.00	0.00	0.00	45.00	104.11	4685.04
162	BESCOM Deposit	No	2.00	0.00	0.00	0.00	2.00	14000.00	28000.00
163	Construction of granular sub-base Grading-V as Sub-base and drainagelayer by providing coarse graded crushed stone aggregates of granite/trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications. Clause 401 of MORTH V Revision.	Cu-m	0.00	0.00	283.80	0.00	283.80	2398.42	680671.60
164	KSRRB M500-16. Providing and laying dense bituminous macadam 50-75mm compacted thickness with 4.5% VG-30 Bitumen using 40/60 TPH capacity H.M.P, using crushed aggregates of grading II, premixed with VG 30 grade bituminous binder and transporting the hot mix to work site, laying with mechanical paver to the required grade level and alignment rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10, complete in all respects complete as per specification MORTH specification No. 507 (P.No.163 I.No. 21.17.6 of PW, P&WTD S.R 2016-17)	Cu-m	0.00	31.90	141.90	75.90	249.70	8245.37	2058868.89
165	KSRRB 9.4-2 : Providing Honne wood frames of doors, windows, clerestory windows, ventilators and other frames, wrought, framed or assembled including making plaster grooves (excluding cost of cement concrete and side clamps), but including cost of materials, labour, HOM of machineries complete as per specifications. Specification No. KBS 9.33 Item No - 9.11	Cu-m	0.50	0.00	0.00	0.00	0.50	119970.07	59985.04

166	Providing and fixing factory made single leaf rigid GRP Sandwich composite door shutter of 40 mm thick, laminated with two GRP skins with wood grain finish, fabricated using U.V-stabilized Isophthalic Gelcoat and one layer of 450 gns E-Glass Chopped Strand Mat (CSM), impregnated with orthophthalic polyester resin. The thickness of the skins shall not be less than 1.5mm. Expanded Polystyrene (EPS) structural foam panel of 37mm thickness and a density of 20 Kg/m3 shall be used as core material. Wooden reinforcements made of Seasoned Salwood block of cross section not less than 36mmx32mm and also necessary salwood reinforcements for fixing the metal fittings such as tower bolts, aldrops, handles, etc. shall be provided. A structural adhesive compatible with EPS foam shall be used for bonding the core material, the salwood reinforcement and the skins. The material and process for manufacturing the door shutters shall confirm to RV-TIFAC Composites Design Centre Standards and specifications and the door shutters tested in confirmation to IS 4020-1994. The finish of shutter will be plain colour White/IVORY/Beige/Light Grey or any other colour using high quality pigments. Excluding cost of fixtures and inclusive of supply of shutters to respective work spot. (P.No.60, I.No.9.94 of PWD SR 2016-17)	Sqm	15.70	0.00	0.00	0.00	15.70	4665.60	73249.92
167	Providing and fixing M.S.grill work for windows and ventilators weighing 21 kg/sqm using M.S. flats, or M.S.square rods, or combination of M.S.flats and square rods as per approved design, drawing including cutting steel sections and welding the same to required pattern with a coat of red lead primer, cost of materials, fixtures, labour and HOM of machinery complete as per specifications. Specification No. KBS 7.12 (Consider 21 Kg/ Sqm)	Sq-m	630.00	0.00	0.00	0.00	630.00	90.98	57317.40
168	KSRB 7.10 : Providing and fixing in position aluminium windows and ventilators as per approved drawings with sliding shutters using double track window frame section of size 61.85x31.75mm. with 1.2mm thick, bottom section weight 0.695 kg/m, sides and top sections 1.3 mm. thick weight 0.659 kg/m; and shutter comprising top and bottom section of size 40mmx18mm, 1.25mm thick 0.417 kg/m; shutter outer side 40mmx18mm, 1.25mm.thick weight 0.417 kg/m, shutter interlock section 40mmx26.7mm, 1.1mm thick, weight 0.469 kg/m. the shutters mounted on nylon rollers with approved quality of fixtures such as aluminium handles tower bolts etc.; and providing and fixing 5.5mm. thick plain glass for shutters fitted with rubber beading aluminium sections including cutting to required length, joints mitred subdividing the frame tenoned and rivetted in the assembled frame stiffened with end clips at corners angles etc., and fixed to the walls, lintels, floor beams/cills as the case may be with necessary steel screws, raul plugs, or teak wood gatties including cutting masonry or concrete and making good the original surface using cement mortar, aluminium sections pretreated for removal of any Specification No. KBS using aluminium section powdered coated to a minimum of 60-70 microns with exterior durable pure polyester grade powder of approved quality. (P.No. 33, I.No. 7.10.2 of PWD SR 2016-17)	Sqm	32.40	0.00	0.00	0.00	32.40	4546.63	147310.81
169	PROVIDING TRAPEZOIDAL PROFILED SHEET Providing and installing of pre painted Galvolum iron Trapezoidal profiled sheet of approved make 1060 mm width (1000 mm cover width), 28-30 mm crest height with crest distance of 200 mm c/c with 2 ribs at the centre for stiffening. The total coated thickness (TCT) of the sheet will be 0.47 mm +/- 0.02 mm tolerance Zinc-Alu Alloy coating AZ150 gsm as per ASTM 1397/A755-550 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 20-22 microns using self drilling/self tapping screws of 25 mm length, to be fixed over the existing purlins, rafters, channels and trusses.(Page No : 300, item No : 38.30 of PWDSR 2016-17)	Sq-m	24.75	0.00	0.00	0.00	24.75	898.13	22228.72
170	Providing and fixing M.S. Block pipe of 38mm dia, of heavy guage of 14 including removing the bends, cutting the pipe, and fixing pipe in between the existing two verticle poles (M.S. rectangular poles) and spot welding the chain link with M.S. block pipe including cost of all materials wastage in cutting, and scaffolding wherever necessary with all lead and lift as directed by the Engineer-in-charge of work etc., complete including two coats of approved quality paint over one coat of shop paint. (P.No.266 I.No.37.4 of PW,P&I/WTDR SR of 2016-17)	Mtrs	32.50	0.00	0.00	0.00	32.50	377.91	12282.08
171	Providing vitrified tiles 60 x 60cms of approved make, shade and size for flooring laid on a bed of 12mm thick cement mortar 1:3 mix, flush pointing with white cement using colour pigment, including cost of materials, labour, curing complete as per specification. (Page No : 109, item No :14.45)	sq-m	103.15	0.00	0.00	0.00	103.15	1297.04	133794.10

172	KSRB 14.14-5: Providing Ceramic tiles of approved make, shade and size for flooring, treads of steps and landings laid on a bed of 12mm thick, cement mortar 1:3 mix, flush pointing with white cement using colour pigment, including cost of materials, labour, curing, complete as per specifications. - for Ceramic Tiles 400 x 400mm on a bed of 20mm thick (Page No : 108, item No :14.36.3)	sq-m	9.88	0.00	0.00	0.00	9.88	1374.02	13578.75
173	KSRB 13-11.1 : Providing and placing on terrace, polyethylene water storage tanks as per IS 12701 : 1996 with manhole lid and suitable locking arrangements, making holes of suitable diameter for inlet, outlet and over flow pipes, including cost of all materials, labour, transport charges, HOM of equipments and testing complete as per specifications.(For 1000 litre capacity) Specification No.KBS 13.22 (P.No.96, I.No.13.78 of PW, P&I WTD S.R 2016-17)	sq-m	1.00	0.00	0.00	0.00	1.00	9875.91	9875.91
174	Providing and fixing Chlorinated Poly Vinyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement & the cost of cutting chases & making good the same including testing of joints complete. (Concealed work including cutting chases and good the walls etc.) - 20mm nominal OD pipes. (P.No.99, I.No. 13.86.2 of KPWD SR 2016-17)	Mtrs	150.00	0.00	0.00	0.00	150.00	244.94	36741.00
175	Providing and fixing Chlorinated Poly Vinyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement & the cost of cutting chases & making good the same including testing of joints complete. (Concealed work including cutting chases and good the walls etc.) - 25mm nominal OD pipes(P.No.99, I.No. 13.86.3 of KPWD SR 2018-19)	Mtrs	150.00	0.00	0.00	0.00	150.00	291.60	43740.00
176	KSRB13-8.5 : Providing and fixing to wall, ceiling and floor, low density polyethylene pipes 6.00 kgf/sq.cm working pressure 110mm outside diameter with special flange, compression type fittings, wall clips, making good the wall, ceiling and floor, including cost of all materials, labour charges, HOM of equipments and testing complete as per specifications. Specification No.KBS 13.2.15.1 / 13.9(P.No.96, I.No.13.70.4 of PW, P&I WTD S.R 2018-19)	Mtrs	50.00	0.00	0.00	0.00	50.00	415.24	20762.00
177	KSRB 11-15.3 : Providing and fixing 453x357mm dia rectangular shape mirror with plastic moulded frame of approved make and shade with 6mm thick hard board backing including cost of materials, labour complete as per specifications. (P.No.84, I.No. 12.41 of KPWD SR 2018-19)	Unit	2.00	0.00	0.00	0.00	2.00	1376.35	2752.70
178	Providing and fixing 7.5 cms to 15.00 cms dia NP grating 100 mm dia. (P.No. 90, I.No. 12.111 of KPWD SR 2018-19)	Each	20.00	0.00	0.00	0.00	20.00	186.62	3732.40
179	Providing and fixing CI Nahani trap of approved make conforming to ISI specifications and construction of Cistern in M-15 as per directions (Rate is inclusive of cost of materials and fixtures and conveyance of materials to work spot). - 10cms x 7.5cms (P.No. 90, I.No. 12.113.1 of KPWD SR 2018-19)	Each	10.00	0.00	0.00	0.00	10.00	291.60	2916.00
180	KSRB13-6.1-1 : Providing and fixing in position brass bib cock of approved quality 15mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No.KBS 13.2.2 / 13.3 (P.No. 93, I.No. 13.23 of KPWD SR 2018-19)	Each	10.00	0.00	0.00	0.00	10.00	269.44	2694.40
181	KSRB13-6.3-3 : Providing and fixing in position brass gate valve with C.I wheel of approved quality (screwed end) 25mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No.KBS 13.2.6 / 13.3. (P.No.94/ I.No. 13.34 of KPWD SR 2018-19)	Each	15.00	0.00	0.00	0.00	15.00	699.84	10497.60
182	KSRB 11 -6 : Providing and fixing white vitreous china clay, water closet European type (Pedestal type, S-trap) with black solid plastic seat and lid, C.P brass hinges, rubber buffers. 10 litre white glazed vitreous china clay low level, flushing cistern (all are approved make) with fittings, C.1 I M.S brackets, 40mm diameter flush bend with fittings and clamps, overflow arrangements with specials and 25mm mosquito proof coupling of approved design, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications.(P.No.79 I.No.12.5 of KPWD SR 2018-19)	Each	2.00	0.00	0.00	0.00	2.00	5983.63	11967.26

183	KSRB 11-11.1 : Providing and fixing white vitreous china clay, flat back wash basin size 630x450mm with a pair of 15mm C.P brass pillar taps with C.I / M.S brackets, 32 mm C.P. brass waste of standard pattern, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications. Specification No. KBS 11 (P.No.82 I.No.12.23 of PWDSR 2018-19)	Unit	4.00	0.00	0.00	0.00	4.00	4532.63	18130.52
184	KSRB 11-2 : Providing and fixing white vitreous china clay, water closet Orissa pattern of size 580 x 440mm with integral type footrests, 100mm S or P trap, 10 litre low level, P.V.C flushing cistern (all are approved make) with fittings, C.I / M.S brackets, 32mm diameter flush pipe fittings and clamps, overflow arrangements with special and 25mm mosquito proof coupling of approved design, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications. Specification No. KBS 11. (P.No. 79, I.No.12.2 of KPWD SR 2018-19)	Pan	3.00	0.00	0.00	0.00	3.00	5057.51	15172.53
185	KSRB 11-7.1 : Providing and fixing white vitreous china clay, flat back, lipped front urinal basin of 430x260x350mm with 5 litres PVC automatic flushing cistern, C.I / M.S brackets, standard flush pipe and C.P. brass spreaders with brass unions and G.I. clamps complete painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications. Specification No. KBS 11 (P.No.80 I.No.12.7 of PWDSR 2018-19)	Unit	3.00	0.00	0.00	0.00	3.00	3460.71	10382.13
186	KSRB 15-17.4 : Applying priming coat over new wood surface and / or wood based surface, after brushing with ready mix enamel priming paint including preparing the surface after thoroughly cleaning oil, grease, dirt and foreign matter, sand papering and knotting ready mix paint including cost of materials, labour, complete as per specifications. (P.No.119, I.No.15.58 of PW, P&I WTD SR 2016-17)	Sqm	15.50	0.00	0.00	0.00	15.50	36.16	560.48
187	Providing and applying painting two coats (excluding priming coat) on new wood surface and / or wood based surface with enamel paint to give an even shade, cleaning the surface of all dirt, dust and foreign matter, sand papering including cost of materials, labour, complete as per specifications.(Page. No. 121 Item No. 15.60.1 SR 2018-19)	sqm	15.50	0.00	0.00	0.00	15.50	97.98	1518.69
188	SOLID PVC DOOR FRAME Providing & fixing factory made PVC Door frame of size 50x47mm with a wall thickness of 5mm, made out of extruded 5mm rigid PVC foam sheet metered cut at corners & jointed 2 No.s of 150mm long brackets of 15x15mm M.S Square tube, the entire door frame to be reinforced with 19x19mm M.S Square tube of 19 gauge. The door frame to be fixed to the wall using M.S. Screws of 65/80mm size complete as per manufacturers specification & direction of Engineer-in-charge.	Sqm	7.88	0.00	0.00	0.00	7.88	613.53	4831.55
189	SOLID PANEL PVC DOOR SHUTTER Providing & fixing 30mm thick factory made rigid foam Panelled Door Shutters made from M.S. tube of 19 gauge thickness, size 19x19mm fro styles and 15x15mm for top & bottom rails, covered with heat moulded PVC channel of 5mm thick sheet & 30 x 50mm wide to form styles & 5mm thick & 75mm wide PVC Sheets for top rail, lock rail & bottom rail on either side & 5mm thick 20mm wide PVC sheet as gap insert for top rail & bottom rail, Panelling of 5mm thick PVC sheet fitted in the M.S. Frame, Sealed to the styles & rails with 5x30mm PVC sheet beading on either side & joined together with solvent cement adhesive etc., Complete as per manufacturers specification & direction of Engineer-in-charge fixed to frames with 3 nos of 75 mm Aluminium hinges.	sqm	7.50	0.00	0.00	0.00	7.50	3724.32	27932.40
190	Supplying of 1440rpm Heavy Duty Exhaust fan with bracket blades suitable to operate an 230V 50HZ, AC Supply complete- 15" Sweep (450mm)- Group A	Each	2.00	0.00	0.00	0.00	2.00	4745.52	9491.04
								Total Construction Cost	23236596.86
								Cost towards PMC / Third Party inspection LS	420935.00
								Sub Total	23657531.86
								Miscellaneous and rounding off	22431.87
								Total	23679963.73

Certificate.

- 1 The workspot was inspected and work is found to be necessary.
- 2 The area comes within the Bruhat Bangalore Mahanagara Palike limits.
- 3 The rates adopted based on the PWD SR, Bangalore circle for year 2016-17 and 2018-2019
- 4 The provisions made in the estimate are necessary and essential.

For Texus Consultants

Assistant Engineer

Assistant Executive Engineer

Executive Engineer

Chief Engineer

Project Division

Yelahanka Zone